

## SEQUENCE LISTING

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<130> 4-33638A/GLT (5047-WO01)

<150> US 60/484,103  
<151> 2003-06-30

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<170> PatentIn version 3.1

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Gly Phe Tyr Phe Gly Lys Asn Ser Ile Tyr Gly Lys Val Ile Glu Lys  
 35 40 45

Thr Asp Glu Glu Ile Arg Ser Leu Phe Tyr Glu Phe Pro Gln Thr Gln  
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Pro Arg Ser Ser Asp Arg Lys  
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Arg Val Pro Phe Ser Pro His Pro Gln  
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Ser Ile Tyr Phe Ile Ile Ala Ala Met Leu Val Ala Thr Lys Ala Ala  
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35 40 45

Glu Pro Gln Ile Val Gly Arg Phe Glu Thr Pro Leu Glu Phe Val Leu  
50 55 60

Val Met Gln Ser Leu Val Gln Thr Asp Asn Lys Thr Ala Phe Ser Asp  
65 70 75 80

Asn Phe Ser Tyr Lys Ser Arg Leu Ser Asp Lys Leu Pro Ser Val Pro  
85 90 95

Leu Pro Ala Trp Met His Ser Trp Asn Leu Ala Phe His Lys Gly Ile  
100 105 110

Arg Ile Ala Phe Arg Gln Cys Phe Asn His Pro Lys Ser Arg Met Tyr  
115 120 125

Gln Ser Ser Leu Ala Asn Thr Val Leu Cys Ala Ser Phe Asp Tyr Leu  
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Phe Arg Asp Glu Glu Pro Gly Leu Ser Asn Ile Cys Thr Phe Ser Ser  
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Ser Ile Arg Met Lys Pro Leu Val Asp Tyr Lys  
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 35 40 45

Ser Arg Ala Pro Lys Pro Pro Asp Pro Val Ala Ala Glu His Leu Asn  
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His Gly Gln Ser Arg Ser Asp Glu Leu Ser Ala Tyr Val Ser Thr Tyr  
 65 70 75 80

Leu Val Pro Gly Asn Val Leu Gly Thr Gly Asp Pro Met Thr Glu Asp  
 85 90 95

Pro Thr Met Glu Arg Pro Tyr Thr Phe Lys Asp Phe Leu Leu Arg Pro  
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Arg Arg Asp Val Ser Ser Glu Ser Asp Asn Asn Ile Arg Gln Ile Asn  
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Gln Glu Ala Ala His Arg Arg Phe Arg Ser Arg Arg His Ile Ser Glu  
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 Asp Leu Glu Pro Glu Pro Ser Glu Gly Gly Asp Val Pro Glu Ile Tyr  
 145 150 155 160  
 Tyr His Glu Asn Ile Asn Leu Gly Glu Gln Lys Cys Val Ile Phe Pro  
 165 170 175  
 Leu Asn Ser Tyr Gly Met Leu Leu Lys Thr Ile Ser Asp Gln Pro Ser  
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 Gly Ala Val Arg Gly Thr Lys Gln Lys Ala Ser Asp His Ser Arg Leu  
 195 200 205  
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 Ala Lys Gly Arg Thr Tyr Tyr Val Asn His Asn Asn Arg Thr Thr Thr  
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 Trp Thr Arg Pro Ile Met Gln Gly Ala Lys Asp Ser Pro Val Arg Arg  
 245 250 255  
 Ala Val Lys Asp Thr Leu Ser Asn Pro Gln Ser Pro Gln Pro Ser Pro  
 260 265 270  
 Tyr Asn Ser Pro Lys Pro Gln His Lys Val Thr Gln Ser Phe Leu Pro  
 275 280 285  
 Pro Gly Trp Glu Met Arg Ile Ala Pro Asn Gly Arg Pro Phe Phe Ile  
 290 295 300  
 Asp His Asn Thr Lys Thr Thr Trp Val Arg Leu Leu Leu Leu Phe  
 305 310 315 320  
 Gly Ser Ile Phe Ile Met Lys Ser Gly Ile Asn Ser Leu Ile Ser Leu  
 325 330 335  
 Val Phe Val Val Leu Ala Glu Glu Leu Asp  
 340 345

<210> 115  
 <211> 168  
 <212> PRT  
 <213> Homo sapiens  
 <400> 115

Met His Asn Ser Pro Thr Val Val Thr Thr Gln Tyr Ser Leu Thr Asp  
 1 5 10 15

Glu Trp Ile Ile Lys Trp val Met Ile Tyr Gln Arg Asn Gln Gly Asn  
 20 25 30

Asn Cys Ser Arg Gly Ser Gly Phe Thr Phe Trp Leu Gly Asp Tyr Lys  
 35 40 45

His Ser Val Asp Pro Ser Ile Ala Ser Pro Ser Pro Glu Ala Ala Ala  
 50 55 60

Leu Cys Val Pro Asp Asp Asn Leu Gly Ile Gly Thr Asn Gln Tyr Gln  
 65 70 75 80

Glu Trp Val Cys Trp Glu Arg Ala Leu Arg Leu Thr Arg Met Asp Ser  
 85 90 95

Ile Asn Gln Ala Pro Leu Pro Cys Ile Leu Ser Cys Ile Gly Ala Met  
 100 105 110

Glu Ala Thr Ala Leu Leu Arg Pro Val Ser Cys Leu Thr Phe Arg Lys  
 115 120 125

Cys Val Asp Tyr Phe Trp Leu Arg Val Glu Arg Glu Ile Ala Trp Glu  
 130 135 140

Arg Lys Ser Ser Tyr Glu Cys Gln Leu Asn Phe Gly Cys Phe Tyr Lys  
 145 150 155 160

Asp Ser Tyr Leu Asn Val Lys Arg  
 165

<210> 116

<211> 263

<212> PRT

<213> Homo sapiens

<400> 116

Met Arg Lys Gly Ser Glu Val Val Cys Tyr Gln Gln Glu Gln Gln Asn  
 1 5 10 15

Glu Ser Glu Gly Pro Met Leu Ser Phe Asp Phe Ser Arg Asn Glu Leu  
 20 25 30

Ser Asn Gly Met Ala Gln Ala Arg Ile Lys Tyr Leu Gly Ile Gln Leu  
 35 40 45

Val Arg Val Gly Lys Asp Leu Phe Lys Glu Asn Tyr Glu Pro Leu Phe  
 50 55 60

Glu Lys Ile Arg Glu Asp Glu Asn Lys Trp Lys Asn Ile Pro Tyr Ser  
 65 70 75 80

Trp Ile Gly Thr Ile Asn Ile Val Lys Met Ala Ile Leu Pro Lys Val  
 23

85

90

95

Ile Tyr Arg Phe Asn Ala Thr Leu Ile Glu Leu Pro Trp Ala Phe Phe  
 100 105 110

Thr Glu Leu Glu Lys Thr Thr Leu Lys Phe Ile Trp Asn Gln Lys Arg  
 115 120 125

Ala His Ile Ala Lys Lys Ile Leu Ser Lys Lys Asn Lys Ala Gly Gly  
 130 135 140

Ile Met Leu Pro Asp Phe Lys Leu Tyr Tyr Lys Gly Thr Val Thr Lys  
 145 150 155 160

Thr Ala Trp Ala Val Thr Phe Ala Lys Glu Ala Glu Phe Glu Ser Thr  
 165 170 175

Met Gln Lys Asp Ser Ser Cys Ser Pro Ala Met Glu Gln Ser Trp Thr  
 180 185 190

Glu Asn Asp Phe Asp Glu Leu Thr Glu Val Gly Phe Arg Asn Ile Ile  
 195 200 205

Thr Ile Thr Ile Ile Phe Thr Ile Thr Ile Ile Ile Thr Ile Thr Ile  
 210 215 220

Thr Ile Ile Thr Val Ile Ile Thr Thr Met Ile Ile Thr Ile Ile Met  
 225 230 235 240

Thr Ile Ile Thr Asn Thr Ile Ile Thr Ile Thr Thr Ile Ile Ile Met  
 245 250 255

Ile Ile Thr Ile Ile Thr Ile  
 260

&lt;210&gt; 117

&lt;211&gt; 45

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 117

Met Ala Lys Pro His Ile Tyr Pro Lys Tyr Lys Asn Tyr Leu Gly Val  
 1 5 10 15

Glu Ala Leu Ala Cys Gly Pro Thr Trp Lys Ala Glu Gln Val Gln Ser  
 20 25 30

Tyr His Val Leu Gly Lys Gln Arg Thr Asn His Ile Gly  
 35 40 45

&lt;210&gt; 118

&lt;211&gt; 24

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 118

Met Met Leu Arg Asn Pro Met Lys Ile Phe Glu Lys Arg Lys Tyr Ile  
1 5 10 15

Pro Gln Gln Lys Met Leu Gln Lys  
20

&lt;210&gt; 119

&lt;211&gt; 101

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 119

Met Asp Leu Thr Leu Leu Glu Thr His Leu Glu Ser Tyr Arg Ile Ser  
1 5 10 15

Ser Gln Met Pro Ser Phe Leu Leu Pro Leu Gly Gln Gly Gly Ser Thr  
20 25 30

Val Ile Arg Asp Asn Val Asp Pro Gln Lys Arg Ala Ala Asp Leu Gln  
35 40 45

Glu Ser Gly Gln Thr Ile Phe Gln Arg Lys Thr Lys Thr Ser Glu Glu  
50 55 60

Gly Val Asn Ser Pro Arg Arg His Asn Asn Pro Lys Cys Leu Cys Thr  
65 70 75 80

His Asn Gly Ala Ser Lys Tyr Met Lys Gln Lys His Thr Glu Pro Asp  
85 90 95

Thr Ser Gln Leu Tyr  
100

&lt;210&gt; 120

&lt;211&gt; 194

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 120

Met Glu Gln Asp Thr Lys Glu Leu Lys Glu Gln Asn Lys Ile Leu Ser  
1 5 10 15

Asn Leu Glu Ile Glu Arg Asp Lys Glu Glu Ala Glu Thr Gln Arg Asn  
20 25 30

Tyr Glu Ile Phe Pro Arg Thr Cys Lys Cys Tyr Glu Leu Glu Pro Glu  
35 40 45

Cys Lys Ser Arg Tyr Gln His Leu Ser Glu Glu Ala Glu Asp Met Gly  
25

50

55

60

Leu Val Val Ile Cys Pro Tyr Leu Ser Glu Ala Ala Gln Ser Pro Gln  
 65 70 75 80

Val Phe Glu Cys Ile Trp Ser Phe Leu Gln Ile Ser Leu Val Phe Ile  
 85 90 95

Ser Gln Asn Asn Leu Glu Leu Val Glu Ile Ser Gly Lys Thr Leu Gln  
 100 105 110

Asp Asp Tyr Val Thr Ile Ala Arg Val Ile Cys Asp Gln Gly Gly Arg  
 115 120 125

Val Val Asn Phe Gly Ile Ser Trp Lys Leu Glu Val Arg Gly Leu Asp  
 130 135 140

Arg Asp Gly Lys Ser Cys Pro Gln Asp Pro Glu Lys Asp Ser Lys Glu  
 145 150 155 160

Gln Pro Asn Leu Thr Glu Gly Glu Lys Ala Lys Gly Ala Val Cys Lys  
 165 170 175

Asn Gln Ile Ser Trp Ser Leu Ala Ser Ala Lys Leu Leu Cys Val Gly  
 180 185 190

Arg Val

<210> 121

<211> 26

<212> PRT

<213> Homo sapiens

<400> 121

Met Gly Lys Gly Trp Glu Val Tyr Asn Arg Gln Asp Leu Gln Pro Glu  
 1 5 10 15

Met Val Val Gln Ala Cys Ser Leu Ser Tyr  
 20 25

<210> 122

<211> 64

<212> PRT

<213> Homo sapiens

<400> 122

Met Asp Ala Ser Val Gly His Tyr Pro Lys Lys Ile Asn Thr Gly Met  
 1 5 10 15

Glu Asn Gln Val Pro His Val Leu Ala Ser Leu Trp Glu Ala Glu Val  
 20 25 30

Gly Glu Ser Pro Glu Val Arg Ser Ser Lys Pro Asp Trp Pro Arg Trp  
 35 40 45

Gln Asn Pro Ile Ser Thr Lys Asn Ala Lys Ile Ser Gln Ala Pro Trp  
 50 55 60

<210> 123

<211> 135

<212> DNA

<213> Homo sapiens

<400> 123

atggccctga gtctcagcag ctcaaaaaga ctccagttgg ataatagggt catgctgatg 60  
 atccaaagaaa caaacaaaca aaaagtgaaa ggtagcggcc cgtatagaaa tatgacagtg 120  
 acacagatga gctga 135

<210> 124

<211> 264

<212> DNA

<213> Homo sapiens

<400> 124

atgatttcca gacagattgg atgttagatc tatgaggatc taaggatctc caaattcttt 60  
 gtcataagca actgtaaaga taaaactgcc atcaacggat tctatccgg caagaactcc 120  
 atctatggca aagtgattga gaagactgat gaagaaatca gatccttggtt ctatgagttt 180  
 ccccacac aactgttaaa taatccca tatagggaag tgggtggag cctccctgttt 240  
 ccaagaagtt cagatagaaa atga 264

<210> 125

<211> 126

<212> DNA

<213> Homo sapiens

<400> 125

atgttggcca gtaactctat tttcatttt ttgaggaccc tccaaaccgt tctccgtagt 60  
 ggttgtacta atttacgttc ccatcaacag tgtatcaggg ttccctttc tccacatcct 120  
 caatag 126

<210> 126

<211> 102

<212> DNA

<213> Homo sapiens

<400> 126

atggataaaaaa gaagagaggc tggaaatagg gagagcagga tatcgccagg ccgagtagca 60  
 ggaggaagga cagaaggcct gactctgctt caactagttt ag 102

<210> 127

<211> 228

<212> DNA

<213> Homo sapiens

<400> 127  
 atgcacagaa aagacaatgg agagatgagc gcaggagagg ctgggaaggc agggactccg 60  
 aaaggagaag gacacggaaa gaaacccaca cacgtcatca gttacagttc ctctaaaaga 120  
 aaaaggctgt tttctggaa agagagcatt tatttcatca tagctgctat gcttggct 180  
 actaaggctg ctaatcagat ttatgaaggc cagcccaccc agagctga 228

<210> 128

<211> 564

<212> DNA

<213> Homo sapiens

<400> 128

atggatatgc acagagacaa agtgtataat gagcaaggct tgattcacat gttgttcgtg 60  
 gcagagaatg aagtgtctt tttctttcc ttagtgcgt gttttcttcc tatgaaaaga 120  
 aaaaaagaaa agactccaga tggagagcct caaattgtcg gcagatttga aactccctg 180  
 gaatttgtat tggtgatgca gagtttggtg cagactgaca aaaaaactgc attctctgat 240  
 aatttttccct ataagtccag attgagcgac aagctgccat ctgttcctct gccagcttgg 300  
 atgcatagtt ggaatctagc attccataaaa ggcattcggg ttgcattcag acaatgttc 360  
 aatcatccta agtctaggat gtaccagtcc tctcttgcca atactgtact atgtgcaagt 420  
 tttgattacc tgtttcgaga tgaggagcca gggctttcca atatctgcac attttcatca 480  
 tctcgcttgg tgcagaaagt acaattgact gccacagagg gtctcctgag cattaggatg 540  
 aagccctgg tggattataa ataa 564

<210> 129

<211> 105

<212> DNA

<213> Homo sapiens

<400> 129

atgataaaaga ccgaatcaaa atccaaatac ttgagctttt ttacttcatt caaacaggct 60  
 gatggtacag tgttctcaaa gatgaaaagg aagcacttga aataa 105

<210> 130

<211> 1041

<212> DNA

<213> Homo sapiens

<400> 130

atggccttcc ctgaccacaa ggatgctgga aagtgttagtc atctttctc tgtgcctgga 60  
 gaggagagag aagtgaaaat tgggtccct gcagtattct gctcatgccccc ctgctacgtg 120  
 gcagaactct gttgtcctat cctgtccaga gctccaaagc ccccgacccc tgtggctgct 180  
 gagcaatttga accatggaca gtccagatca gatgaatttga gtgcttacgt gagtacctac 240  
 ttgggtccag gcaatgttct tggcacccgtt gatccatga cagaagatcc aaccatggag 300  
 cgaccctata catttaagga ctttcttcctc agaccaagaa gggacgtgtc ctcggagtcg 360  
 gacaataaca tcagacagat caaccaggag gcagcacacc ggcgcctccg ctcccgccagg 420

cacatcagcg aagacttgg a gccc gagccc tcggaggcg gggatgtccc cgagatttat	480
taccaatgaaa atataaaat tt aggtgaacag aaatgtgtaa tttccctt aaatagttat	540
ggtatgttac taaaacgat ctcggaccag ccctcaggag ctgtcagagg aactaagcag	600
aaggcttcag atcaactccag actccaatgg ggaacagttc agctcttga ttgctggaa	660
gaaagaaaaag atgctaagg ggcacatac tatgtcaatc ataacaatcg aaccacaact	720
tggactcgac ctatcatgca gggtccaag gactcacccg tacgtcggc tgtgaaagac	780
accctttcca acccacagtc cccacagcca tcaccttaca actccccaa accacaacac	840
aaagtacac agagcttctt gccacccggc tggaaatga ggatagcgcc aaacggccgg	900
cccttcttca ttgatcataa cacaagact acaacctggg taaggctgct gcttttattt	960
ggctccattt tcacatgaa gtctggcatt aattccttga tttccttagt gttttagtt	1020
cttgcagagg aattggattt a	1041

&lt;210&gt; 131

&lt;211&gt; 507

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 131

atgcacaaca gccaacggt ggtaacaacc cagtattcat tgacggatga atggataatc	60
aaatgggtga tgcacttacca gagaaatcg ggaaacaact gtgcagagg ttctggtttc	120
acttctggc tgggtgacta taaacactca gtggatccaa gcattgcatt accatctcca	180
gaagctgctg cttgtgtgt gccagatgtat aatttggca taggcacaaa tcaataccag	240
aatgggtgt gctgggagcg tgcactgagg ctgaccagaa tggacagcat aaaccaggct	300
ccttgccct gtatcctcag ttgtatttga gcaatggaa ccacagccct cttgagacct	360
gtcagctgtc tgaccttcag aaagtgtgtg gactattct ggctgagagt ggaaagagaa	420
attgcattggg aaaggaaatc ctcatatgag tgtcagctga attttggatg ctttataaaa	480
gatagttatc taaatgtaaa aagataa	507

&lt;210&gt; 132

&lt;211&gt; 792

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 132

atgagggaaag gttcagaagt ctttgctac caacaagaac agcagaatga aagtgaagg	60
ccaatgcttt catttgcatt ctccagaaat gagctaagca atggcatggc ccaggctaga	120
ataaaaatacc taggaatcca acttgtaagg gttggaaagg acctcttcaa ggagaactac	180
gaaccactgt tcgagaaaat aagagaggat gaaaacaaat ggaaaaacat tccatattca	240
tggataggaa caatcaatat cgtaaaaatg gccatattgc ccaaagtaat ttatagattc	300
aatgctaccc tcatcgagct accatggct ttcttcacag aattggaaaa aactacttta	360
aagttcatat ggaacccaaa aagagccac atagccaaga aaatcctaag caaaaagaac	420

aaagctggag gcatcatgct acctgacttc aaattatact acaagggtac tgtaaccaaa 480  
 acagcatggg ctgtcacctt tgccaaggaa gctgagttt aatccaccat gcagaaggat 540  
 agcagctgct caccagcaat ggaacaaagc tggacggaga atgactttga cgagttgaca 600  
 gaagtaggct tcagaaacat catcaccatc accatcatct tcaccatcac catcatcatc 660  
 accatcacca tcaccataat cacagtcatc atcaccacca tgatcatcac catcatcatg 720  
 actatcatca ccaacaccat catcaccatc accaccatca tcacatcatgat catcaccatc 780  
 atcaccatct aa 792

<210> 133  
 <211> 138  
 <212> DNA  
 <213> Homo sapiens

<400> 133  
 atggcgaaac cccatatcta cccaaaatac aaaaattacc tgggcgtgga ggcgcttgc 60  
 tgtggtccta cctggaaaggc ttagcaagtg cagtcctacc atgtgctggg caagcaaaga 120  
 accaaccaca ttgggtga 138

<210> 134  
 <211> 75  
 <212> DNA  
 <213> Homo sapiens

<400> 134  
 atgatgttaa ggaatcctat gaagatttt gaaaaaagaa agtacattcc acaacaaaaa 60  
 atgcttcaga aatag 75

<210> 135  
 <211> 306  
 <212> DNA  
 <213> Homo sapiens

<400> 135  
 atggacttga ctttatttta aacccatttgc gaaagctaca gaatatcctc ccagatgccc 60  
 tcattcctgt tgcccttggg ccagggaggg agcacagtga tttagggacaa cgtggacccc 120  
 cagaagaggg cagcagactt gcagggaaagc ggccagacta tttccagag aaagacaaag 180  
 acttctgaag aaggagtcaa ttcaccaaga agacataata atcctaaatg tttatgcacc 240  
 cataatggag cttccaaaata tatgaagcaa aaacatacag aaccagatac atcacaattt 300  
 tactag 306

<210> 136  
 <211> 585  
 <212> DNA  
 <213> Homo sapiens

<400> 136  
 atggAACAGG ataccaaaga actaaaggaa caaaataaaa ttctgagtaa ctttagaaata 60  
 gaaagagata aagaggaagc agaaacccag agaaattatg aaattttccc caggacttgc 120

aagtgctatg agtttagagcc agagtgcagg tccccgtatc agcaccttc tgaggaggct	180
gaagatatgg ggctgggtgg catctgcccc tatctctcag aggctgctca atccccccaa	240
gtgtttgaat gcatctggag tttcctgcaa atctccttag tttttattag ccaaaaacaat	300
ttggagctag ttgaaatctc tggaaagaca ttacaggacg attatgtgac aattgctcgt	360
gtaatctgtg accagggagg tagagtggtc aattttggca tattcctggaa gctggaagtg	420
aggggcttgg acagggatgg aaagagctgc cctcaagacc cagaaaaaga cagcaaggag	480
cagcccaatc tgacacagaagg agagaaagca aaaggagctg tttgcaagaa ccagatctct	540
tggagcctgg ctatgtccaa gctcttgtgt gtggcagag tctga	585

<210> 137  
 <211> 81  
 <212> DNA  
 <213> Homo sapiens

<400> 137 atggggaaag gctgggaggt gtacaaccga caggacttgc aaccagaaat ggtggtgcaa	60
gcatgtagtc tcagctacta g	81

<210> 138  
 <211> 195  
 <212> DNA  
 <213> Homo sapiens

<400> 138 atggatgcat ctgttaggccaa ttatcctaag aaaattaata caggaatggaa aaccaagta	60
ccacatgttc ttgcctcaact ttgggaagct gaggtgggtg aatcacctga ggtcaggagt	120
tcaaaaaccag actggccaag atggcaaaac cccatatcta caaaaaatgc aaaaattagc	180
caggcgccat ggtag	195